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OBSERVED MEAN MONTHLY WINDS AT STANDARD PRESSURE SURFACES FROM 850 MB TO 100 MB

AIR FORCE GEOPHYSICS LABORATORY
HANSCOM AIR FORCE BASE, MASSACHUSETTS

**30 SEPTEMBER 1976** 

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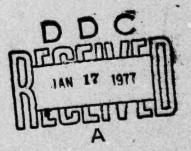


Observed Mean Monthly Winds at Standard Pressure Surfaces From 850 mb to 100 mb

ARTHUR J. KANTOR

30 September 1976

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METEOROLOGY DIVISION PROJECT 8624

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FOR THE COMMANDER:

Chief Scientist

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# 1. INTRODUCTION 5 2. OBSERVED VS "ATLAS" WINDS 6 3. MEAN MONTHLY OBSERVED WINDS 7 4. CONCLUSIONS 7 Illustrations 1. Locations of 200 Northern Hemisphere Rawinsonde Stations 9 Tables 1. Comparison of "Atlas" and Observed Mean Seasonal Wind Components 8 2. Climatic Mean Monthly Observed East-West and North-South Winds 10

# Observed Mean Monthly Winds at Standard Pressure Surfaces From 850 mb to 100 mb

# 1. INTRODUCTION

This paper contains mean east-west (zonal) and north-south (meridional) wind components for the seven standard pressure surfaces between 850 mb and 100 mb at 200 Northern Hemisphere rawinsonde stations. The wind components are based on at least 8 years of rawinsonde observations taken during the 10-year period from January 1964 through December 1973. Values were summarized from the publication Monthly Climatic Data for the World, <sup>1</sup> which contains mean monthly vector winds based on daily rawinsonde observations. For most stations, less than 10 percent of the daily observations are missing. No attempt was made to estimate any bias that may be introduced by the absence of these observations; however, in general, the strong wind cases are the most frequently missed observations, resulting in slightly smaller computed mean values than the true means. Because observing equipment has improved in recent years, fewer observations are missed now than prior to 1964.

(Received for publication 29 September 1970)

NOAA (1964-1974) Monthly Climatic Data for the World, January 1964-December 1973, U.S. Government Printing Office.

The climatic mean wind components provided in this paper were originally calculated for use in comparing observed and computer-deduced mean monthly winds. This comparison led to the conclusion that winds based on daily rawin-sonde observations provided better estimates of true climatic winds than the computer-generated values. This conclusion and the fact that one of the most highly regarded wind atlases available today is more than 17 years old, has prompted publication of these tables.

These tables are based on at least 8 years of observations taken since 1964 and are considered to be good estimates of the true climatic winds. On the other hand, the charts in Crutcher's atlas are based on observations taken between 1944 and early 1958. At that time, only 4 years of upper-air data were available for many locations. Consequently, a new atlas based on more recent observations is needed.

# 2. OBSERVED VS "ATLAS" RINDS

Mean seasonal "atlas" winds obtained from reference 3 were compared with the observed climatic winds published in this report for a number of Northern Hemisphere stations ranging in latitude from 14°N to 80°N. Winter (December, January, and February) and summer (June, July, and August) zonal and meridional winds for six of these stations are shown in Table 1 for six standard pressure levels, 850 through 100 mb. Speeds are in knots, and positive values represent winds from the west and south.

Values shown for the two methods are in general agreement. However, differences at some locations, levels, and seasons are significant, notably at the higher altitudes and speeds. For example, winter zonal winds for 200 and 300 mb at Kagoshima, Japan, and for 100 to 300 mb at Lihue, Kauai, Hawaii, do not compare well, in that observed winds are considerably larger than "atlas" values (see Table 1). At least a portion of these discrepancies is a result of the fact that "atlas" winds at the six stations shown are based on only 5 to 6 years of data, whereas the observed climatic winds are based on 10 years (9 years at Jan Mayen). Furthermore, the "atlas" winds were taken from data roughly 15 years older than that for the climatic winds in this paper; hence, the actual period of record at the higher pressure altitudes is for even fewer years than indicated in both Crutcher's atlas and Table 1. Much of the missing data at the higher altitudes was undoubtedly

Kantor, A.J. (1976) A Comparison Between Observed and Deduced Mean Monthly Winds from 700 mb to 200 mb, ERP No. 548, AFCRL-TR-78-0044.

Crutcher, H. L. (1959) Upper Wind Statistics Charts of the Northern Hemisphere, NAVAER 50-1C-335, Volumes I and II.

due to strong winds aloft in winter that severely affected the older rawinsonde tracking equipment. Consequently, the resulting bias toward lighter winds (at the higher levels) is greater in the earlier "atlas" data.

## 3. MEAN MONTHLY OBSERVED WINDS

Climatic mean monthly observed winds are provided in Table 2 for the 200 Northern Hemisphere locations shown in Figure 1. Based on at least 8 years of daily observations, as described earlier, the mean zonal and meridional winds presented in Table 2 are for the midseason months January, April, July, and October. Again, speeds are in knots, and positive values represent winds from the west and south.

## 4. CONCLUSIONS

The information provided in Table 2 is considered to be the best climatic mean monthly wind data currently available. Moreover, it indicates a need for the construction of an up-to-date, upper-air wind atlas that will contain scalar wind speeds, standard vector deviations, and standard deviations of zonal and meridional components.

Table 1. Compactons of "Atlas" and Observed Mean incomed Wind Companies.

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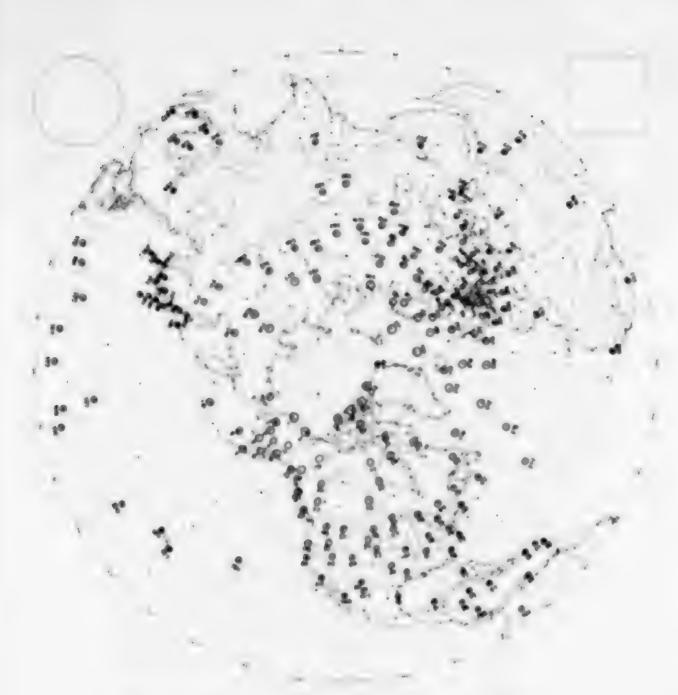


Figure 1. Locations of 200 Northern Hemisphere Rawinsonde Stations

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds\*

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\*Speed is in knots; winds from the west and south are positive

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

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\* speed is in knots; winds from the west and south are positive

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

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JAN         APR         JULY         COUT         mb         JAN           E/W         N/S         E/W         N/S         E/W         N/S         E/W         DAT           4         -7         2         -4         11         1         -2         R/W         R/W <t< td=""><td>-</td><td></td><td>-2</td><td>9-</td><td>-12</td><td>-10</td><td>10-</td><td>일</td><td></td><td>(48°)</td><td>9</td><td>4</td><td>61</td><td>T</td><td><u>-</u></td><td>-2</td><td>-</td><td></td><td>(44°N,</td><td>-4</td><td>4-</td><td>0</td><td>) <del>-</del></td><td>Ŷ</td><td>0</td><td>c</td></t<>	-		-2	9-	-12	-10	10-	일		(48°)	9	4	61	T	<u>-</u>	-2	-		(44°N,	-4	4-	0	) <del>-</del>	Ŷ	0	c
JAN         APR         JULY         COUT         mb         JAN           E/W         N/S         E/W         N/S         E/W         N/S         E/W         DAT           4         -7         2         -4         11         1         -2         R/W         R/W <t< td=""><td>AP E/W</td><td>2</td><td>10</td><td>21</td><td>30</td><td>33</td><td>28</td><td>20</td><td></td><td>pokane</td><td>2</td><td>11</td><td>18</td><td>27</td><td>27</td><td>21</td><td>15</td><td></td><td>Boise</td><td>4</td><td>-</td><td>8</td><td>25</td><td>28</td><td>24</td><td>.,</td></t<>	AP E/W	2	10	21	30	33	28	20		pokane	2	11	18	27	27	21	15		Boise	4	-	8	25	28	24	.,
JAN       APR       JULY       JULY       OCT       mb       E/N       N/S       E/W       N/S <th< td=""><td>/8</td><td>20</td><td>27</td><td><u>ې</u></td><td>- 2</td><td>-111</td><td>-111</td><td>- 2</td><td></td><td># 49 S</td><td>10</td><td>**</td><td>27</td><td>-10</td><td>-14</td><td>-12</td><td>6-</td><td></td><td># 50</td><td>4</td><td>-2</td><td>9</td><td>-13</td><td>~15</td><td>-111</td><td>c</td></th<>	/8	20	27	<u>ې</u>	- 2	-111	-111	- 2		# 49 S	10	**	27	-10	-14	-12	6-		# 50	4	-2	9	-13	~15	-111	c
JAN         APR         JULY         CCT         mb           E/W         N/S         E'W         N/S         E'W         N/S         E'W         N/S           14         -7         2         -4         11         1         -2         700           14         2         11         1         -2         700         700           31         9         19         6         37         8         44         5         300           32         9         16         6         37         8         44         5         300           34         9         16         6         37         8         44         5         300           34         9         16         6         37         8         44         5         300           34         9         16         6         13         26         2         100           23         -4         15         -2         21         3         26         2         100           34         -4         -4         -4         4         -4         4         7         2         200 <td< td=""><td>JA E/W</td><td>6.</td><td>22</td><td>35</td><td>47</td><td>47</td><td>40</td><td>28</td><td></td><td></td><td>12</td><td>22</td><td>3.7</td><td>9.6</td><td>51</td><td>40</td><td>31</td><td></td><td></td><td>4</td><td>20</td><td>100</td><td>0.0</td><td>49</td><td>39</td><td>0</td></td<>	JA E/W	6.	22	35	47	47	40	28			12	22	3.7	9.6	51	40	31			4	20	100	0.0	49	39	0
JAN       APR       JULIX       OC         E/W       N/S       E/W       N/S       E/W       OC         14       2       11       1       11       11         14       2       11       1       24       4       28         24       8       21       1       24       4       28       28         24       8       21       1       24       4       28       44       28       28       44       28       44       28       27       8       44       44       28       27       8       44       44       26       36       36       36       36       36       36       36       36       36       36       36       36       36       36       36       36       36       37       8       44       44       47       36 <t< td=""><td>hib</td><td>850</td><td>002</td><td>500</td><td>300</td><td>200</td><td>150</td><td>100</td><td></td><td></td><td>850</td><td>700</td><td>500</td><td>300</td><td>200</td><td>150</td><td>100</td><td></td><td></td><td>850</td><td>700</td><td>200</td><td>300</td><td>200</td><td>150</td><td>00.</td></t<>	hib	850	002	500	300	200	150	100			850	700	500	300	200	150	100			850	700	200	300	200	150	00.
JAN       APR       JULIX         E/W       N/S       E/W       N/S         4       -7       2       -4       11       1         8       -2       1       1       24       4         14       2       11       1       24       4         24       8       21       1       24       4         31       9       16       6       27       6         31       9       16       6       27       6         31       9       16       6       27       6         34       9       16       6       27       6         34       9       16       6       27       6         37       8       2       13       3         37       4       4       1       -1       2         37       -4       15       -5       19       -2         37       -4       16       -2       -1         30       0       33       -10       44       -4         40       0       23       -4       16       -2         40	OC.														•											
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JAN       APR       JAN         E/W       N/S       E/W       N/S       E W         14       -2       5       -2       17         14       2       11       1       24         31       9       16       6       27         31       9       16       6       27         32       9       16       6       27         34       9       12       6       27         34       9       12       5       13         37       -4       15       -5       19         37       -6       28       -7       2       12         55       -1       14       -1       2       14         50       0       33       -6       34       16         50       0       33       -6       34       16         40       0       23       -6       34       16         47       3       28       2       30         72       4       41       4       41         66       0       41       4       41         66       <	Y.I.	-	1	4	$\infty$	00	9	e0		M <sub>O</sub> 92	1	-2	-3	1	-4	-2	-5		M <sub>0</sub> 09	100	4	9	- ∞	9	4	5
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## 44 Man ## 5able ##		-4	-2	1	9	5	9	ıo		aki (4	-2	-5	8-	-12	-10	9-	4-		land (4	-3	0	2	4	2	0	ç
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850 100 100 100 100 100 100 100 100 100 1	J. W.	4	$\infty$	14	24	31	32	34			14	23	3.7	55	54	20	40			20	31	47	72	99	55	VV
	dın	850	700	000	300	200	150	100			850	700	500	300	200	150	100			850	700	500	300	200	150	100

Speed is in knots; winds from the west and south are positive

Fable 2. ('limatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

	Į						-											
TN/S	α α	-	. ic	9-	4 4		-2	4 4	200	9~	5 5		-	-	0	-2	-2	C
OCT E/W	9	26	36	40	36	X.)	= :	- 18 28	41	44	25	_	113	20	30	43	46	V V
Z/N	25	1 07	, e.	-4	4 6	, 93°W)	2.	9 - 1	-14	-14	-12	84°W	-2	-4	2-	-11	-15	0
JULY E/W N/	4.2	200	40	52	15	(49°N	11	16 26	41	50	38	Ste Marie (46°N, 84°W)	11	18	28	38	46	
R/N/S	(C) (C)	0	4	4	ကလ	Falls	67.	<del> </del>	10	က္ :	က္က	larie (	1	က္	9-	2-	in I	•
APR E/W N/	7 2	2.5	30	35	23.2	ational	4	11	3 10	34	23	Ste A	7	14	26	42	4.5	1
X.	-7	3 67	-18	-14	င်္က ဆု	55 International Falls (49°N,	100	0-1-	-15	-13	-10	Saulte	-3	-4	-5	-4	<del>د</del>	4
JAN E/W N	111	1 +0 1 00	50	90	3.5 3.5 3.5	# 55	12	20	47	46	2.4 2.7	96#	13	22	33	54	55	
								0 0	0	0	00		0	0	0	0	0	i
dım	850	000	300	200	150		850	70	300	500	150		850	700	200	300	20	
S/N	29 4	- U	- o-	6-	5 th		-7	σ; α	-7	2-	29		-4	9-	-4	-4	-4	
OCT E/W N/S	17. 6	28	40 - 9	39 -9	36 -6 24 -3		-7	σ; α	-7	2-		W)	7 -4	14 -6	234	33 -4	41 -4	
I.Y OCT N.S E.W N/S	17. 6	28	40 - 9	39 -9	5 th	(M <sub>O</sub> 10	10 7	28	388	7- 44	29	101°W)	7 -4	14 -6	234	33 -4	-4	
I.Y OCT N.S E.W N/S	2 1. 6	201 20	8 40 -9	10   39 ~9	36 -6 24 -3	O., 101 <sup>o</sup> W)	7- 01 1-	20 1 20 20 20 20 20 20 20 20 20 20 20 20 20	-8 38 -7	-7 44 -7	26 -6		6 7 -4	0   14 -6	-6 23 -4	-7 33 -4	41 -4	
S EW N/S E/W N/S	6 2 1; 6	9- 86 9 26	42 8 40 -9	53 10 39 -9	3 24 -3		2- 01 1- 2	28 - 13 188 - 3	43 -8 38 -7	54 -7 44 -7	-5 26 -6 -5 26 -6		5 6 7 -4	8 0 14 -6	16 -6 23 -4	34 -7 33 -4	-8 41 -4	
S EW MS EW MS	3 6 2 1:	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 42 8 40 -9	1 53 10 39 -9	17 3 24 -3	Bismark (470,	-3 7 -1 10 -7	15 16 13 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	0 43 -8 38 -7	2 54 -7 44 -7	18 -5 26 -6	Platte (41°N,	-2 5 6 7 -4	-3 8 0 14 -6	2 16 -6 23 -4	7 34 -7 33 -4	42 -8 41 -4	
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"Speed is in knots; winds from the west and south are positive

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

OCT mb JAN APR JULY OCT W N/S E/W N/S E/W N/S E/W N/S	-2 850 19 -5 12 -6 10 1 -5 700 32 -2 22 -6 17 1	-3 500 50 0 34 -8 25 4 32 -5 300 73 3 50 -11 37 8 46	-4 200 74 -1 51 -12 42 4 51	-4 150 62 1 42 -8 33 0 44 -4 100 47 1 31 -6 15 -1 31	#61 Oakland (38°N, 122°W)	2 850 7 0 6 -4 5 0 2	700 15 -3 10 -5 4 6 6	3 300 41 -11 33 -14 19 14	2 200 47 -14 39 -12 24 22 29	150 28 -9 25 -1 6 7 21	# 62 San Diego (33°N, 117°W)	2 2 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	22 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 22 24 25 27 25 27 25 28 28 28 28 28 28 28 28 28 28 28 28 28	20 00 01 0 01 0 00 00 00 00 00 00 00 00 0
S E/	-2 12 -6 19				0			1 71	2-	ှ အ	2		-4:		C I
) (a)	+	-10	-13	-14	(, 79°W)	-1	II.			17 -3	(M°80 W)	0		n 3	
/S E.W N/S E/	-2	25 -10	50 -13	17 -8	o (43°N, 79°W)	12 -1	17 -1	21 50 21 10 21 10	্ন ক		n (47°N, 68°W)	12 0	→ :	30	Ç 3
E/W N/S E.W N/S E/	10 -2	-4 25 -10 -9 40 -13	0 00 -13	-2 40 -14 -1 17 -8	Buffalo (43°N, 79°W)	-1 12 -1	-4 17 -1	250	ST	17	Caribou (47°N, 68°W)	-49 12 0	61	1 1 1 2 2 C C C C C C C C C C C C C C C	91
AN APR JULY E, W N/S E, W	-2 10 -2 -3 15 -6	23 -4 25 -10	41 0 50 -13	34 -2 40 -14 23 -1 17 -8	#58 Buffalo (43°N, 79°W)	13 -1 12 -1	22 -4 17 -1	48 42 55	49 -9 42	-6 32 -3	* 59 Caribou (47°N, 68°W)	-th 12 0	61	25 - 15 - 30 - 3	25 25 25
/S E/W N/S E.W N/S E/	5 -2 10 -2 14 -3 15 -6	-14 23 -4 25 -10 -15 36 -9 40 -13	-11 41 0 50 -13	-10 34 -2 40 -14 -9 23 -1 17 -8	20	1 13 -1 12 -1	-2 22 -4 17 -1	22 23 12 22 22 23 23 23 23 23 23 23 23 23 23 23	-1 49 -0	27 -3 17	* 59 (aribon (47°N, 68°W)	-4: 8 -4: 0	14 -6 19	24 -15 30 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

speed is in knots; winds from the west and south are positive

Pable 2. Climatic Mean Monthly Observed Last-West and North-South Winds (Cont.)

most is in bit is; aind, from the west and south are positive

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

	JA	7		APR	J1.1.Y	Y		OCT	qui		K			36	JULY		13
	E/W	2/2	E/W	2/2	E/W	Z/Z	E/W	Z.		E/W	N/S	<u> </u>	S/Z	E/W	S/N	E/W	
150	8	80	0	91	<b>\$-</b>	16	-2	en	850		9-	14	4-	2	-2	6	
200	13	9	6	00	9-	9	2	-	100		-	22	-5	14	0	91	
00	30	00	23	4	9=	0	60	-	500		~	36	5	20	2	26	
00	99	16	20	2	20	9-	27	+	300		అ	90	00	30	-	38	
00	68	17	29	6	-11	-2	39	27	200		7	62	-14	34	4	6*	
20	62	17	63	12	-13	6-	34	4	150	20	2	51	-10	26	7	43	
00	42	=	36	0	-19	2-	16	0	100		2	34	-5	11	4	28	
		6 71 N	ashville (36°N,	e (36°	N, 87°W)	(W)					175 Ca	#75 Cape Hatteras (35°N,	teras (		16°W)		
50	16	0	14	2	20	0	30	-	850			13	43	00	2	4	
200	58	0	22	-	6		13	0	100	33	2	23	~	12	m	11	
00	8	3	300	~	~	<u>.</u>	23	~	200	-	*	37	9-	14	m	22	
8	20	6	56	0	17	80	38	0	300		6	55	-10	15	7	36	
8	80	6	69	-5	20	-11	20	0	200		8	63	-18	17	+	48	
20	20	S	90	-2	14	-13	46	0	150	_	2	57	-12	12	9-	43	
8	52	60	33	23	2	9-	27	0	100		2	90	-1	-	-3	97	
		#72 Sh	Shreveport (32°N, 94°W)	rt (32°	N, 94	(M					# 76 C	76 Charleston (33°N, 80°W)	on (33	N, 80	(Mo		
850	13	2	100	0	6	4	+	-	850	17	6	12		2	67	2	
00	23	_	19	8		-	6	1-	700	29	က	20	-25	00	2	10	
00	41	47"	34	S	0	2	19	0	200	48	4	35	10	00	~	19	
00	62	10	57	60	-2	-10	35	_	220	74	00	51	80	2	0	33	
00	11	10	72	9	-2	-13	47	0	200	87	90	64	-13	8	5	45	
50	67	2	99	S	7	-13	44	0	150	79	9	57	-11	2	-7	41	
	-		-	,									1		,		

Speed is in knots; winds from the west and south are positive

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont. )

	NAC S	7. 7	A W	PR	31.3	777	C W	T.X.	qu		JAN	APR F/W N	Z Z	E VE	7.2	FOCT F/W	S/N
-	200						100			-							
-	67	00	-	5	-3		4-	2	850		0	-10	23	-16	PS	40	~
	12	21	5	50	-4		2	21	700		CI	7	-	-12	PP)	7	2
_	200	4	1.9	-6	-2		36	0	500		3	9	7	-1	-	27	0
_	49	٠,0	32	6-	9-	4	21	-1	300	24	-	24	-1	7	5-	*	10
	63	2	55	-12	5-		3.2	- 22	200		11	36	7	9	2-	10	7
-	59	30	53	-10	-10	- 1	58	7	150		2	325	7	*	ap 1	Q.	1
100	42	10	33	30	-14		~	E.	100		*	14	-3	-14	-	0	25.
		70	Merida	la (21°N,	N. 90°W)	(3)					0 86 Sw	Swan Island (17°N, 84°M)	1) pue	20 X. 8	(Mol		
1		-	4			2	9.1		0,10	0	-	113	4	16-	-	1.2	C
-	*	7	Fig.	2	61-	17	0	18 (	04 10		nt d	0.1	p .	- :	Ph		, 8
-	2	4	£.	~	and design	20	-	0	100	9=	~	9-	-	10	n	9 .	~
-	- O	50	S.		00	0	0	0	005	~.	m	6.9	7	01-	P <sup>2</sup>	2	0
300	30	0.3	24	-	7	0	10	N	009	40	Po	C.	7	0	7	0	1
-	38	\$,	18 62	1	en	1	14		007	esti peri	9	30	0	-	*	*	7
-	3.65	- ma	33	2	0	24	~	0	150	000	27	20	-	30	-	*	T
	21	20	18	ded.	-14	-4	in.	~	100	91	9	10	-	917	-	7	5
					9	ć						4	5				
	* X 4	4 Juliana		Airfield (18"N.		63 W)	_				100	Kingsten (18 N.	5		( M )		
10	-1.3	-	6.	2	21-	*	C	~	05 R	-	00	=	-	-22	7	112	4
700	20	0	CI	0	and	4	- F.	61	700	_	0	9-	0	57-	S.	-	4
-	1	7	23	C8	30	61			00%	_		vo.	40.4	5C 4	170	T	0
_	30	-10	(M)	2-	10	~	~7	0.0	300	_	(pan	24	\$ P	pan.	PPT 4	0	- 69
_	~	-10	13	- 6	000	0	-	[	200	_	10	200	4	~	-	~	C.
-	20	-12	3.6	GC -	6	0	07	C	150	36	100	36	2	11	4	<b>(-</b>	40
-	0	63	0.0	0	<	0	0		. 00	_			6	6	*		1

speed by in knots; winds from the west and south are positive

Table 2. (Timatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

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Speed is in knots; winds from the west and south are positive

Table 2 Climatic Mean Monthly Observed Last-West and North-South Minds" (Long )

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Spend is in knots; winds from the west and south are positive

fable 2 Climatic Mean Monthly Deserved Last-West and North-South Winds" (Cont.)

speed to in knote; winds from the west and couth are positive

faile 2. Climatic Mean Monthly Observed East-West and North-South Ainds? (Cont.)

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speed is in knots; winds from the west and south are positive

Table 2 Chinatic Mean Monthly Observed Last-West and North-South Winds (Cont.)

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speed is in knots; winds from the west and south are positive

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spend is in knots; winds from the west and south are positive

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

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mb E/W	850 -3		200 33 150 37				200 42			-	000
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spend is in knots; winds from the west and south are positive

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

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APR E/W N	9	11	16	24	22	18	#203 Kyev (50°N,	33	$\infty$	13	9 :	17	16	Saratov (52°N, 46°E)	c	2	13	18	20	***
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OCT E/W N/S	13 -1	17 -4	21	200	27 -13	22 -8		10 -3	14 -6	18	23 -9	0 00	20 -10		10	1 1	13	24 -4	23 -6	
/S E/W N/S	13 -1	17 -4	21	200	-13	22 -8	OE)	10 -3	14 -6	18	o c	0 00	20 -10	(5)	10	1 1	13	-4	23 -6	
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N/S E/W N/S E/W N/S	113	6- 11	10 22 21 -6		3 27 -13	3 22 - 8	da (59°N, 40°E)	2 -1 10 -3	6 -1 14 -6	81 0- 21	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		7 2 20 -10	n (56°N, 49°E)	4 -2 12 1	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	11 -1 192	0 24 -4	18 0 23 -6	1
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\*Speed is in knots; winds from the west and south are positive

Fable 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

T/N/S	25.10102		202000		
E/W N	41110011		-10 -14 -15 -12 -13 -13 -13 -13 -13 -13 -13 -13 -13 -13		-8 -17 -10 -10 -10
LY N/S	044440	8°W')	12711482	(3)	014080-
JULY E/W N	123	ON, 1	-19 -20 -20 -12 -21 -24	N, 4°1	11.1.1.1.2.1.2.1.2.1.2.1.2.1.2.1.2.1.2.
R/N/S	ଷ୍ଟ୍ଟ୍ଟ୍ବ୍ବ୍	off (1:	444655	Abidjan (5°N, 4°W)	0-04
APR E/W	0410-420	# 220 Dakar-Yoff (15°N, 18°W)	2002 2002 1003 1003 1003 1003 1003 1003	. Abidji	20 m m m m m m m m m m m m m m m m m m m
Z/Z	5-12000-1	220 Da	£ - 5 5 4 5 10	# 222	162000035
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quu	850 700 500 300 200 150		850 700 500 300 200 150		856 700 563 563 360 200 150
OCT E/W N/S	6 10 18 18 42 42 42 42 42 5 6 7 6 7 7 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1		-9 6 -6 7 0 0 114 6 220 5 124 7		10 10 10 10 10 10 10 10 10 10 10 10 10 1
5.7.	411 22 112 21	r <sup>o</sup> E)	2270700	(3 <sub>0</sub>	490000
JULY E W N	0 2 4 4 5 2 7 2 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	Sudan (20°N, 37°E)	8 6 6 7 7 8 8 8 8 8 8 8 4 7 8 8 4 8 8 8 8 8 8	toum (16 <sup>0</sup> N, 33 <sup>0</sup> E)	2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
PR N/S	गंगम् ल क्षा	1an (20	100-12	ım (16	# 4 % C 1 - 4 -
APR E W N	0. 22 88.0 88.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9		000000000000000000000000000000000000000	Sharto	51474000
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JAN E.W	20 20 33 44 60 60 60 60 60 60 60 60 60 60 60 60 60		114 30 60 60 60 82 82		
	850 700 300 300 150		850 700 700 300 300 150		850 7700 7700 7700 7700 7700 7700 7700

Speed is in knots; winds from the west and south are positive

Fable 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

T.	0 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -		107.50		80-5-6-
E/W N/	11 16 16 22 22 22 22 20		6 11 17 14 14 14		24422
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JILY E/W N	wa1422p	10 N. 1	0 4 10 10 10 10	100°E)	180000-
N/S	<u>0004</u>	1sk (68	~ N N 4 N 4 F	Tura (64°N,	127046
APR E/W N/	2 C 1 S 2 4 S	*256 Verkholansk (68°N, 153°E)	24 2 0 2 2 2 2		8 13 16 20 17
S.	2425501	og Ver	100 100 110 110 110 110 110 110 110 110	257	4.1.1.4.2.2.1
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Speed is in knots; winds from the west and south are positive

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

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\*Speed is in knots; winds from the west and south are positive

Fable 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

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"Speed is in knots; winds from the west and south are positive

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

	7.	K W	N. N.	E X	SCLY N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/	E/KC	CCT W/S	mp	<b>7</b> %	JAN X	E/W	APR W N/S	JULY E/W N	Z/V	E/W A	T N/N
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1-	-	22	~	25	-2	30	5-	200		-	37	6	51	-7	42	9-
	-	22	-	22	-2	50	+-	150	3	0	36	-	53	101	41	-
52	0.0	21	0	3.7	0	26	2	100	63	5.	30	4	30	-5	34	53
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1	0	52	S	48	~	22	7	150	_	18	45	0	-23	6-	14	~
*	m	60	7	29	0	27	-	100	_	2	22	0	-34	-13	2	-3
* 2	279	Alma-	Ata	(43°N, 77	17°E)					+284	Wakka	Wakkanai (45°N,		142°E)		
	-	m	0	2	Q	0	0	850	10	-5-	112	0	8	2	13	2
	3	2	c	12	-	60	<u>س</u>	700	18	-	20	-2	10	2	80	-
	10	22	0	19	en	21	+	500	29	4	32	7	80	7	29	*
	[	36	60	36	8	31	-1	300	47	-1	52	0	30	-10	48	12
đ	2	40	2	50	8	32	2	200	20	· 67	57	(m)	42	-12	09	80
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	2	31	0	10	61	2.5	-22	100	46	-	4.1	•	16	9	AG	2

Speed is in knots; winds from the west and south are positive

Cable 2 Climatic Mean Monthly Observed Last-West and North-South Winds" (Cont.)

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Table 2. Climatic Mean Monthly Observed Last-West and North-South Winds" (Cont. )

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spend is in knots; winds from the west and south are positive

Table 2 . Chinatte Mean Monthly (Newtyred East-Mest and North-South Minds" (Cont.)

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spend is in knots; winds from the west and south are justified

Fable 2. Climatic Mean Monthly Observed East-West and North-South Winds" (Cont. )

qu	SAN EIN	N. N.	EW	PR.	JCE.	 	S W 3	K N/S	qu	E/W	JAN N N/S	APR E/W N	N/S	JI E/W	JULY W N/S	E/W	OCT W N/S
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00	12	0	19	~	-23	20	-12	0	200	_	20	30	*	-34	-12	-20	6
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00	6		-	-	~52	9.	-22	F-7	100	_	-	30	7	-13	63	-12	7
	-	323	# 323 Bangkok (14°N, 100°E)	k (14°	N. 100	(E)				4.329	Salgo	Saigon Tan-Son-Shut (11°N, 107°E)	Son-N	11) Jui	ov. 10	(S)	
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		.26	Sonkhi	(7 ) al	Sonkhla (7 'N, 101°E)	(H)				,	e351 Lihue,		Kauai (22°N,	22°N,	159°W)	•	
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'speed is in knots; winds from the west and south are positive

Fable 2 Climatic Mean Monthly Observed East-West and North-South Winds\* (Cont.)

	T. N/S		i	0		-1		2	pred (	0	7 6	7 -	- 2			2		0	-	-4	9-	2
	E/W N	30 00 1 1	-10	-5	1 - 2	-19		8-	00	10	2,0	4 in	က			-2	100	2-	9-	- 7	9-	-13
E)	LY N/S	22 00	~	7	4 20	-22	E)	2	(	<b>o</b>	N C	1 0	~		<u> </u>	-	-	~	0	-4	9=	2
1, 145	JULY E'W N	C- 30	33	-2	9-	-10	; 171°E)	-12	-13	-13	ت ا ا	3 4	٠.		152°E)	4-	20-	-11	6.	-10	6-	22
(14°)	N/S	1-2	n	-2	င က	-	(10 C	0	_	<b>-</b>	2) L	-	· ep		(7°N,	7	0	-	ಣ	သ	ಞ	က္
#355 Guam (14°N, 145°E)	APR E/W N	-15	9-	G :	13	-2	#356 Majuro (7 <sup>0</sup> N,	-15	<b>2</b> :	21 : 1	ភាជ	9	<b>.</b>		#357 Truk (7°N,	-12	<del>2</del> =	8-	7	-2	-	-5
11 30 00 m	N.N.	20	23	<b>→</b> :	ψ xx	<i>5,</i>	#356	7	7	7	eg id	2 01	10		# 35	77	port	-	_	<b>1</b> -	5	e.
	JAN E/W N	-17	-10	<u>ښ</u>		-12		-10	-11	-16	? ? !	1 1	-12			-16	-14	-21	-14	-12	-16	-25
	mp	850	200	300	200	100		850	200	000	300	000	100			850	700	500	300	200	150	001
	-X.	0 -	-	0 :	÷1 ~	0		-	~	1	7 7	1 1	4			0	-	0	-	:-	0	23
9	E N N		-	=======================================	m (1 51 51	3.		-13	~ ~	01-	, i	-	-11.		_	-13	2-	Ti.	1.5	30	50	7
1.30	27		והי	7	<del>य</del> ^	7	167"1:)			_		1			170°W)	-	0	_			_	-
Gen. Lyman (20°N, 1°5°W)	31	× ×	21	21	£ 21	0		-14	~ 1	0 :	2 4	p (C)	0			-18	-10	0	77	3.5	3.5	21
man (	Hd ×	0-	0	0	7 7	72	ake Island (19°N,	~d 1	21	^ :	1 I	~	9=		" Sit Johnston Island (170%,	-			-1	2)	27	· 0
6.13.	A A E	(- :	ord ord	~ (	12 12 11 11 11	2.1	ke Isla	1.4		~ ;	227	r -:	17		ton f	1.	21	* **	25.	362	25	28
	7.	27 20	0	7	¥-1-	9-	*353 Wa			_	; a	_		1	John	27	-		-10	-11	-11	9
#352 Hilo	JAN I	ئا ئ	16	40	000	77	8	2-	21	7	22.5	300	(C)		**	C.	-	01	01.	36	32	1.6
	quu	8:0	000	300	200	100		8.50	700	000	3000	0,1	100			850	700	500	.300	200	1.50	100

speed is in knots; winds from the west and south are positive

Beste 2. Clemetic Wears Woods observed Conf. Wash san Bouth South World? Kons !

				B.		
8/8 8/8	9700			(A) and (B) (B) (B) (B)		*****
(C) (M)	******	35.5		60000	N (F)	202200
A 10 (5)	***	@ at (8)	(98)	****	-= {	
W/(%	**28	82.4	S.	* 2 2 2 2	3 2 3	222222
8//8	**************************************	g=+	HED) overhead	*****	0.00	8,00000
18,410	0000	0 0 m	nip Ber	0 F 0 S 0	23	900000
6.00 W	80 0 E	C F B	8,878	90022	10 m	
100		355		5-228		222222
100	장장목표	Service				
(3)		000				
(3)						
(56 Th (8)/3 (5)/3 (5)/3	60 77001 2 2 1000 1000 1000			N××29		
(a) (a) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 8 9	(4)	85588	8 8	**************************************
(56 Th (8)/3 (5)/3 (5)/3	80 (2 S) 80 (2 S) 80 (2 S) 80 (2 S)	\$ 5 5 5 5 5 5 5 5	( ) ( ) ( ) ( ) ( ) ( )	**************************************	**	**************************************
\$ 6 W N/S 6 W N/S 6			10 (P 14, 1,10° 15)	***********		**************************************
ATLE (OF F) (W. N/S) (W. N/S)			Printings (F. N.	85588 85588 85588 85588		
本原稿 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)			a vista servengen (16° No. 16 tol 16)	**************************************		
高			Printings (F. N.	85588 85588 8888 8888 8888	400 CE	

specul is in tentis, alrebs from the wast and south are positive

Fable 2. Clandle Wean Wenthly Observed Lack-Arcel and Marth-South Winds" (Cant.)

2.4.8 av/2	# 6 6 # # 8	2000 2000 2000 2000 2000 2000 2000 200	188	* P. S.	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	eses e	2000 2000 2000 2000 2000 2000 2000 200
95	m 6 6	= ବୃଷ୍ଣ କ		***	7777		PRENCE 8
2/8 9/3 2/8 9/3	226	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		*85			
11	(F) (B) (M	9628	W. 886"W.)	899		'N, 84"W)	2208283
JEE 9 (S)	222	9990	Echo (33°N.	8 9 9 8 8 8 8 8 8	1717	thip faction (39th N., £4th W.)	

Speed to in briefly, which from the west and south see possible

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds" (Cont.)

90	E/8	2 / N N N	E/W	10 / S	E VE	N/8	E/W	N N/S	98	E/W	JAN N/S	E/W	N N/S	E/W N/	N/S	E/W	N/S
850	2000	E.	8/30	90	*21	8	67	89	850	-	7	-14	0	-13	0	00	0
00	100	27	100	200	(E)		900	72)	200	11	88	200	0	200		-10	0
00	8)8	20	-	100	aste.	8	100	(25)	(5,6)(0)	N.	7	8 B	-	-123	~	-	0
00	2	4	107	100	1 S / W	9	200	88 8	3,00		T	02	08	80.8	24	04	0
00	000	2012	100	9	-	69	6.9	(S)	266		(6)	(Fix)	98	-	200	60	7.
300	86	20	(A)	96		600	90	800	0000	-	168	3.8	**	9	0	9	7
8	6		(26)	42	-10	0	800	02 E	100		200	9	100	7	-	5	7
															4		
		586, *	Bogos		. Se w.	2K)					#417 C	hibarah	ses (29	hibashas (29°N, 106°W	(M.9		
000	v	9				9		ü	850	8 0	0	61	21	6.0	-	-2	-
90	92	68	(4.3)	-	(i)×	*	888	(total	200	89	89	00	(Pa	1 105	~	1 87	*
00	48	0	3)100	(20)	0.00	*	90	326	300	98	89	520	(8)	90	0	14	*
00	9	9	Sp (5)	*	0 1 d	8	(E) to	8	300	44	0	89	22	7	0	30	9
200	7	88	20	8	202	(20) (20) (8)	(5)	88	200	44	gade il		12	9	2	36	80
30	00	8	01	98.4	NO I	999	56	E0	0.53	-	20	28	940 940	-10	70	20	-
00	56	80	e e	g g	8 8	-	10)	0	100	89 89	100	98%	0	-14	23	12	25
		4300	6 Ceeke	e (51°N,	N. 4°E)	8					*422 H	ampalm	Se (23	Empaime (28°N, 111°W)	CMO		
08	33	99	90	100	100	200	36	89	850	-	0	87	-	20	7	7	0
00	(2)	6	80	88	39	920	(33)	(309)	200		0	20	(67)	9=	0	673	sit)
00	19 (4)	7	9	ad)	88	(40)	(6)	8	200	80	,000	520	80	ap 7	85	2	20
00	808	630	20	800	98	0	200	80'8	300		20	60 (0)	13	-10	820	879	100
00	15	10 E E E	823	000	(8.2)	0	28 64	900	200		+	88	91	100	89	42	89
083	500	100	2)8	-	300	0	68	8 8	150		20	250	14	HARRIS	50	200	-
90	254	262	100	No.	20	(32)	50 30	100	100		29	38	10	-16	99	20	ev

Table 2. Climatic Mean Monthly Observed East-West and North-South Winds" (Cont. )

#446 Szeged (45°N, 20°E)

gu	E.VE	8/8	E/W	88/88 N/88	W/3	E.Y. N/S	E/W	N/S
99	8	8	6	-	-	64	10	89
30	8	8	94	0	10	-	89	-
10	55	No.	8	88	(E)	80	(5)	-1
90	10	E83.4	30	9=	62	64	100	7
00	30	e 123	10	8	324 (5%)	(4.6)	40 84	9=
30	68	-10	60	7	90	946	20	7
00	100	62	87.0	80%	68	Evi	900	7

smp	31	N	APR	P.R.	30	LY	0
	E/W	N/S	E/W	S/S	E/W N	N/S	E/W N
850	97	0	10		01	T	10
200	62	Ci	90	20	20	7	-
200	11	000	12	*	80	5.	10
300	17	9	19	02	11	T	12
200	121	0	22	-	20	0	1.5
150	24	6-	22	-	24	*	18
100	64	0	80	~	14	2	17

"Speed is in knots; winds from the west and south are positive